

SYSTEM AND METHOD FOR RELEASING ETHYLENE GAS TO BOTANICAL SYSTEMS

ABSTRACT

A composition capable of supplying ethylene gas to botanical systems is disclosed and includes a microporous solid having a plurality of cells and a quantity of ethylene gas contained within one or more of the plurality of cells. The cells can be either open or closed, and can be either permeable, degradable or both so as to release the ethylene over a period of time. The ethylene gas is released from the cells over a period of time. The release rate of the ethylene gas may be altered by changing the density of the microporous solid. The release rate may also be altered by manipulating the size or shape of the microporous solid.